

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 71-4

WASTE DISCHARGE REQUIREMENTS
FOR
CALIFORNIA AND HAWAIIAN SUGAR COMPANY'S
CROCKETT REFINERY, CROCKETT, CONTRA COSTA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, finds that:

1. The California and Hawaiian Sugar Company, called the discharger below, submitted a report of waste discharge dated January 9, 1971.
2. The discharger proposes:
 - a. To discharge Waste "V", which is 0.6 mgd of industrial waste only from refining cane sugar, via Outfall "V" into the tidal reach of an unnamed stream that enters Carquinez Strait at the southern pier of Carquinez Bridge.
 - b. To discharge Waste "W", which is about 16 tons (dry weight) per day of solid industrial waste containing filter aid, and inorganic salts and crude sugar solids filtered from Waste "V", into Land Disposal Site "L-1". "L-1" is on the ridge dividing the watershed of Canada del Cierbo from that of an unnamed tributary of Rodeo Creek.
3. The Board adopted a Bay Water Quality Control Plan on March 26, 1970, and a Land Disposal Control Plan on September 25, 1969.
4. The beneficial uses of the waters of Carquinez Strait and contiguous water bodies are:
 - a. Industrial cooling water supply year-round
 - b. Water-skiing, pleasure boating, marinas, fishing, and hunting
 - c. Fish and wildlife propagation and sustenance, and waterfowl and migratory birds habitat and resting
 - d. Navigation channels and port facilities
 - e. Esthetic enjoyment.

5. Land within 1000 feet of Outfall "V" is used for industry and transportation.
6. Land within 1000 feet of Land Disposal Site "L-1" is used for pasture and transportation.
7. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the proposed discharge.
8. The Board in a public meeting heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, the discharger shall comply with the following:

A. Waste Discharge Requirements

1. The treatment or disposal of waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The discharge shall not cause:
 - a. Floating, suspended, or deposited macroscopic particulate matter or foam, in waters of the State at any place;
 - b. Bottom deposits or aquatic growths at any place;
 - c. Alteration of temperature, turbidity, or apparent color beyond present natural background levels in waters of the State at any place;
 - d. Visible, floating, suspended or deposited oil or other products of petroleum origin in waters of the State at any place;
 - e. Waters of the State to exceed the following limits of quality at any point:

Dissolved oxygen	5.0 mg/l minimum
	When natural factors cause lesser concentrations then this discharge shall not cause further reduction in the concentration of dissolved oxygen.
Dissolved sulfide	0.1 mg/l maximum
Other substances	any one or more substances in concentrations that impair any of the protected beneficial water uses or make aquatic life or wildlife unfit or unpalatable for consumption.

3. The waste discharged from Outfall "V" shall meet these quality limits at all times:

a. In any grab sample:

pH	7.0 minimum
	8.5 maximum

Settleable Matter

The arithmetic average of any six or more samples collected on any day	0.5 ml/l/hr., maximum
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80% of all individual samples collected during maximum daily flow over any 30-day period	0.4 ml/l/hr., maximum
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Any sample	1.0 ml/l/hr., maximum.
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b. In any representative set of samples:

Toxicity: survival of test fishes in 96-hour bioassays of the waste
as discharged

Any determination	70%, minimum
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Average of any three or more consecutive determinations made during any 21 or more days	90%, minimum
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c. In any representative, 24-hour composite sample:

Grease	15 mg/l maximum
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Nutrients	to be prescribed at the earliest practicable date
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4. The mean daily flow of Waste "V" for any seven consecutive days shall not exceed 1.3 mgd.
5. The discharge of Waste "W" shall not cause waste material to be in any position where it is, or can be carried from Land Disposal Site "L-1" and deposited into waters of the State.
6. Land Disposal Site "L-1" shall have facilities adequate to divert surface runoff from adjacent areas, to protect boundaries of the site from erosion, and to prevent any conditions that would cause drainage from the materials in the disposal site. Adequate protection is defined as protection from at least a 100-year storm.
7. The disposal of material acceptable only at Class I waste disposal sites in Land Disposal Site "L-1" is prohibited.

B. Provisions

1. This Order includes items numbered 1, 6, and 7 of the attached "Reporting Requirements", dated August 28, 1970.
2. This Order includes items numbered 1, 2, 3, 4, 5, and 6 of the attached "Notifications", dated January 6, 1970.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on January 28, 1971.

Executive Officer